

**Trade and Industrial Education**

School Year \_\_\_\_\_

**Course: Leisure Craft: Engine Performance****Course Code # 5715**

Term: \_\_\_\_ Fall \_\_\_\_ Spring

**1 to 2 Credits, Standards 1 through 9 are for 1 credit. Standard 9 is for an additional 1 credit.**

Student:	Grade:
Teacher:	School:
Number of Competencies in Course: <b>37 for 1 credit, 41 for 2</b>	
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

**STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success, in the school, community, and workplace.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Demonstrate positive leadership skills in the classroom and community.			
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.			
1.3	Investigate how technology has made an impact on engine performance in the past 2 years.			
1.4	Construct a job search network.			

**STANDARD 2.0: Students will demonstrate leisure craft engine performance safety practices, including Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements for a leisure craft repair facility.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Determine the safe and correct application for chemicals used in leisure craft service facilities.			
2.2	Use protective clothing and safety equipment.			
2.3	Use fire protection equipment.			
2.4	Follow OSHA and EPA regulations affecting leisure craft.			
2.5	Respond to safety communications.			
2.6	Pass with 100 % accuracy a written examination relating to safety issues.			
2.7	Pass with 100% accuracy a performance examination relating to safety.			
2.8	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.			

**STANDARD 3.0: Students will apply fundamental science concepts to leisure craft engine performance technology.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Examine how physics concepts and laws apply to leisure craft engine performance.			
3.2	Analyze the functions and operation of leisure craft engines and fuel systems.			
3.3	Analyze the functions and operation of leisure craft ignition systems and emission systems.			

**STANDARD 4.0: Students will test, diagnose, service, and repair charging and electrical systems as related to leisure craft.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Illustrate the application of Ohm's law to charging and electrical systems related to leisure craft.			
4.2	Interpret schematics, diagrams, and reference information used in leisure craft electrical systems.			
4.3	Use strategy based diagnostics for determining the cause of a fault in an electrical circuit.			
4.4	Test, diagnose, and service batteries.			
4.5	Test, diagnose, and service light systems.			

**STANDARD 5.0: Students will test, diagnose, service, and repair ignition systems as related to leisure CRAFT.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Analyze the function and operation of an ignition system related to leisure craft technology.			
5.2	Diagnose ignition system problems.			
5.3	Perform ignition system service.			

**STANDARD 6.0: Students will test, diagnose, service, and repair fuel delivery systems as related to leisure CRAFT.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Analyze the function and operation of fuel systems related to leisure craft technology.			
6.2	Diagnose fuel system problems.			
6.3	Perform fuel system service.			

**STANDARD 7.0: Students will test, diagnose, service, and repair emission systems as related to leisure CRAFT.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Analyze the function and operation of emission systems as related to leisure crafts.			
7.2	Diagnose emission systems relating to leisure crafts.			
7.3	Perform emission system service on leisure crafts.			

**STANDARD 8.0: Students will research, test, diagnose, service, and repair electrical mechanical systems as related to leisure CRAFT.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Analyze the function and operation of computer chips used in leisure crafts.			
8.2	Demonstrate the use of diagnostic equipment.			
8.3	Analyze the operation of gauges, sending units, warning lights, speedometers, tachometers, electronic instrument panels and accessories.			
8.4	Diagnose problems with gauges, sending units, warning lights, speedometers, tachometers, electronic instrument panels and accessories.			
8.5	Perform repairs on gauges, sending units, warning lights, speedometers, tachometers, electronic instrument panels and accessories.			

**STANDARD 9.0: Students will properly test, diagnose, and repair leisure craft general electrical systems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Interpret schematics, diagrams, and reference information used in leisure craft electrical diagnosis.			
9.2	Use strategy-based diagnostics for determining the cause of a fault in an electrical circuit.			
9.3	Demonstrate the use of equipment and tools for electrical testing and diagnosis.			

**STANDARD 10.0: Students will apply leisure craft engine performance technology knowledge and skills in a specific work-based or student initiative project learning experience**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
10.1	Apply principles of leisure craft to a school/work-based learning situation.			
10.2	Integrate time management principles in organizing personal schedule to include school, work, social, and other activities.			
10.3	Evaluate and apply principles of ethics as they relate to the school/work-based learning experience.			
10.4	Employ principles of safety to the school/work-based learning experience.			

Additional Comments \_\_\_\_\_